

THE RING

Campus Report

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UVic 
UNIVERSITY OF VICTORIA



Students in University Extension's Intensive English Language Program got into the spirit of Christmas at their Farewell and Christmas Party Nov. 30. Shown in the photos: Program Assistant Renee Harper and Japanese student Rina Miyamoto help wrap presents that the students bought to give to children at Queen Alexandra Hospital, and the Intermediate



English Class sings Christmas carols. About 65 students participated in the Intensive English Program this term, coming from such places as China, Japan, Mexico, Quebec and Thailand.

Extra power for CFUV before Christmas

It's the season of gift-giving and UVic's campus radio station, CFUV-FM, has a special present for its listeners later this month. That's when the station will make its long-awaited move to a stronger broadcast signal. The change comes three months after receiving regulatory approval and nearly three years after efforts began to upgrade the FM station's signal.

Shipping delays for new transmitting equipment pushed the high-power on-air date well past initial expectations. The station's new antenna has been slow in arriving from France and the more powerful transmitter is also still in transit from New Jersey to its new home on the second floor of the McPherson Library.

When installed, the changes will mean more than a stronger signal for CFUV listeners. There will also be a move down the FM dial from 105.1 to 102. To make sure regular listeners aren't lost in the transi-

tion, the station will broadcast simultaneously on both frequencies for the first month.

Still chagrined about earlier missed on-air dates, CFUV Station Manager Tim Chan has decided not to announce a precise power-up date and time until all the new equipment has arrived on campus. That is expected to be sometime next week. In any event, Chan promises 2290 Watts of CFUV will be on the air before the end of the month.

Just before the big change, CFUV will mark the fourth anniversary of signing on the FM airwaves. The station is planning a birthday party on Dec. 17 to be held in the SUB Upper Lounge starting at 6:30 p.m. Everyone is invited to attend the party which will feature food, refreshments and live entertainment by the Dixieland Express.

TubaChristmas to raise money for Times-Colonist 1000 Fund

The euphonious tones of massed, low-brass instruments will be heard on Saturday, Dec. 17 when the Christmas tubas of Victoria unite in a gala concert. From 3 p.m. to 4 p.m. at Market Square, the Victoria TubaChristmas Ensemble will play carols and raise money for the **Times-Colonist 1000 Fund**.

Now in its tenth year of existence, TubaChristmas Victoria has raised thousands of dollars for local charities. It brings together tuba and euphonium players from all over the Pacific northwest who band together to exchange musical ideas and enjoy each other's company. Local musi-

cians participating are from the UVic School of Music, public schools, community bands, and the military. Co-ordinator for the event is Eugene Dowling, Principal Tubist with the Victoria Symphony, School of Music faculty member, and School District No. 61 teacher.

TubaChristmas was founded by distinguished professor of Music, Harvey Phillips of Indiana University. It takes place in 120 centres all across North America and Europe and honors the late William Bell, Phillips' teacher and formerly tubist with the New York Philharmonic.

FM *cfuv* 102
VICTORIA'S RADIO ALTERNATIVE

Along with a new transmitter, a stronger signal and a new FM radio frequency, CFUV also has a new look. This is the station's new logo, designed by listener Dale Fenwick whose entry beat out 50 other submissions in the station's recent logo design contest.

United Way surpasses goal!



United Way

The UVic United Way Campaign has surpassed its 1988 target of \$50,000, says Brian Atwell (Accounting). As of Dec. 5, the total raised was \$50,790, with donations still trickling in. Any money received between now and the new year will be included in this year's amount.

Campaign Co-ordinator Peter Darling (Director, Supply and Technical Services) says that "a very significant number of new donors

helped" the campaign to reach its goal.

Anyone who wishes to begin donating by payroll deduction in January of 1989 should contact either Atwell or Darling as soon as possible. The campaign will also gratefully accept any one-time donations, which can be made in cash, by cheque, or by VISA or MasterCard. For further information, call Atwell at local 7039.

Conference Services builds links with off-campus world



Hyslop

Organizational skills, sense of humor, and capacity to handle pressure and tight time frames are key qualities required for success in the conference services business, according to Fiona Hyslop.

Hyslop, UVic's new conference services manager, joined the University community last spring when Tom Lietaer left the campus to become manager of Victoria's downtown Conference Centre.

UVic Conference Services is part of University Extension and paves another of Extension's many avenues for bringing diverse groups of people to the campus. Says Hyslop: "To my mind we're a logical adjunct of Extension because we help bring people onto campus for programs that have a definite academic content."

Hyslop brings to her new position strong experience in conference organizing in Eastern Canada as well as management experience with the federal Department of Employment and Immigration. Born in Hong Kong, she has roots in Victoria where she spent her childhood and attended Victoria High School.

Hyslop became Manager of UVic Conference Services in late spring at the beginning of the busiest period of the conference season. "It was like jumping into the deep

end," she exclaims.

During the summer from 3,000 to 3,500 people were on campus attending events organized by Conferences Services staff. "This means that the University as a physical plant is being used all the time," says Hyslop. "This campus provides a very sympathetic environment for meetings. It in itself attracts people. The facilities are really super—the auditorium, for example, and the jogging trails."

Conference Services is in a "transitional phase," says its new manager. "The office had developed an excellent reputation for its services before I came. My mandate is to maintain it, and to raise its profile."

"We don't sit waiting for business. We have so much to offer, and our aim is to operate on a cost-recovery basis."

"We're members of Tourism Victoria, and we work closely with hotels, tourist businesses, bus companies, and tour companies. We couldn't operate without the downtown link."

"Our work cuts across the entire campus," Hyslop continues. "Organizing conferences is work I find very stimulating. We work with all faculties, divisions and schools on the academic side and at the same time work closely with ancillary sup-

port services. As a result of our work we keep busy with Housing, Food Services, Printing, and Buildings & Grounds. It's wonderful working with all those services. We're very lucky—they are very nice people to deal with."

One of the major aspects of conference work is moving print material, from preliminary conference programs to final papers. One of the largest and most prestigious conferences to come to UVic next year will be the Medical Informatics & Education International Symposium, to be held at UVic in May 1989. This conference alone has required the printing of 7,000 preliminary programs, about 4,000 of which required shipping. Hyslop points out that there is usually a logical flow to the paperwork, involving collecting and printing material, creating mailing lists and envelopes, then responding to the results.

"Some people think we mainly print programs," says Hyslop with a smile. But, a conversation with UVic's Conference Services manager makes clear that the role of her office is multi-faceted and helps University Extension take UVic into the community and bring people from around the world to this University and the City of Victoria.

Computer-activated video a new language learning tool

Canada's first computer-activated video system for French language learning is generating enthusiasm among students in University Extension's French Language Program and eliciting the interest of a wide range of language educators.

Called Clip Vao, the system was introduced last September in an Extension course on French via Computer-Activated Video. It was developed by Dr. Francois Marchessou of the University of Poitiers, France.

Monique Clebant, Coordinator of Extension's French Language Programs, has received several requests to demonstrate the system to language educators. In October, she demonstrated Clip Vao to the B.C. Association of Teachers of Modern Languages in Vancouver, and on December 1, she conducted a day-long workshop here for the National Defense Linguistic Training Centre.

Clip Vao uses a personal computer, a VCR and television monitor. Students view French videos showing a wide variety of activities and situations. Periodically, the video presentation on the screen stops, and questions about the video appear on the computer screen for the students to answer.

Students in the Extension course are encouraged to use the system in small groups and to discuss, in French, their answers before typing them into the computer. The computer acknowledges correct responses before going on to the next video segment. All the students' answers are printed out, and the instructor periodically reviews these to monitor students' progress and identify problem areas to be addressed in a traditional classroom session held once a week.

The use of computers and videos for language learning is not new. In many schools,

computers are used as tools for language drills, and videos are viewed passively. By linking these two technologies in an interactive mode, however, Clip Vao stimulates students to participate with greater attention and involvement in language learning.

Clebant emphasizes the flexibility of Clip Vao as a teaching tool. "Clip Vao is an authoring system," she stresses. "This means that teachers can create their own videos to suit their courses and the particular needs of their students."

In fact, several of the students using Clip Vao this semester in the Extension course are schoolteachers, and part of their coursework includes creating actual computer-activated video lessons, just as they would do for their own students.

Clebant herself has been closely involved in creating the video lessons now being used in the Extension course. In producing some of the videos, she has used segments from "France Panorama"—a television show broadcast in France and covering a wide range of situations and topics.

French via Computer-Activated Video will be offered through University Extension again beginning in January for students with intermediate or advanced French language skills. Clebant emphasizes that no prior computer experience is necessary. Further information may be obtained by calling Clebant at 721-8510.

Billets wanted

The UVic rugby club must billet players from January 12 to 15, 1989 and would appreciate help from the University community. Members of a young rugby team from New Zealand will require temporary accommodation in Victoria when they visit in the New Year to play the currently undefeated UVic Junior XV.

This will be the second visit to Victoria by the Palmerston North Boys' High School, one of the most distinguished high schools in New Zealand, according to Dr. Bruce Howe (Physical Education).

All transport and some meals would be provided by the UVic rugby club members. "But, we are anxious to provide these young people (who are 16 to 18 years old) reasonable accommodation for the period," says Howe.

If anybody can help, please contact Howe at 721-8383.

Smoking ban proposed

Non-smokers continue to make inroads in their efforts to clear the air they share with smokers on the UVic campus. This time it's student residence buildings that face the prospect of wider smoking restrictions.

At present, no official policy exists regarding smoking in UVic's 46 residence lounges and other shared residence areas. Although informal rules are often set by residents on a floor-by-floor basis, Housing and Conference Services is considering a total ban on smoking in residence lounges. The ban would permit smokers to light up only in their own rooms.

Recent surveys of residents have found that more than 90 percent are non-smokers and all but a handful of floors have voted to restrict smoking in their lounges. Mike Ramsay, Co-ordinator of Resident Student Affairs, says the residence-wide ban on smoking outside private rooms is being considered because "we're acknowledging a trend that has taken over. We're trying to

stay in tune with changing views."

While some campuses, such as the University of Alberta, have imposed total bans on smoking in residence buildings, UVic is not proposing to prohibit smoking in private rooms. Instead, lounges, halls, washrooms and stairways would be designated non-smoking. This limited ban has been proposed in order to avoid making smokers totally unwelcome in residence.

It is expected that the proposed regulation will be a money-saver. Existing policies have resulted in cigarette damage to carpet and wallpaper, prompting Ramsay to conclude that with the proposed restrictions "it's got to help our maintenance."

Current residents were informed of the proposed regulations in mid-November, and Ramsay reports he has received "not one" negative comment from residence smokers. If approved, the new policy would take effect for the 1989-90 academic year.

PROFS makes job info available

Personnel Services has combined forces with Joe Sparrow of Computing and Systems Services to make a job information feature available to PROFS users. It became effective December 5.

As a supplement to the "Notice of Job Vacancies" summary sheet distributed each Monday by Personnel Services, PROFS will provide users the convenience of accessing the same list (updated weekly) via the Profs Information Menu.

PROFS is a highly efficient office communication system available to faculty and staff with access to UVic's central Computer. It provides electronic mail and many other communication features.

For more information on this new job listing feature, phone Mary Soles (8090) or Judy Cryderman (8088) at Personnel Services. More information on PROFS is available from Joe Sparrow (7675).

Recycling program plans mammoth pickup

December 16 is the date of the mammoth paper pickup to be conducted on campus before the Christmas break by the Vancouver Island PIRG (Public Interest Research Group).

Regular collection will begin again in the New Year on January 9, says PIRG executive director Josephine Payne-O'Connor. If any offices are bothered by overflowing recycling tubs between Dec. 16 and Jan. 9, 1989 they can call the recycling headquarters in the PIRG office (Local 8629, SUB Room 114) and a special pickup will be arranged.

White and colored bond paper, newspaper, computer and photo-copying paper can be deposited in the recycling tubs. Work study students hired specifically for the recycling program by Environmental Studies and PIRG have been collecting the paper and taking it to a sorting centre to be graded, packed and sold locally.

The recycling program is being conducted by PIRG, Environmental Studies and the Alma Mater Society at UVic and is meant to serve as a model for other public institutions in Victoria.

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Student-run *Martlet* reports UVic news

For co-editors Mike Gower and Rebecca Games, publishing the *Martlet* is a full time job. Working with them is a staff of eight work study students and some 30 student volunteers for whom the job provides valuable experience and maybe even a little extra money.

The *Martlet* is an editorially autonomous paper that gets its direction from the editors and staff writers. "The Canadian Federation of Students are in favor of a free press, the Canadian University Press is in favor of a free press, so at least theoretically, everybody agrees we should be free to report on anything we feel necessary," says Gower.

In the past, the AMS Board of Directors sought more involvement in the *Martlet* through the editor-in-chief. This resulted in confrontation between the *Martlet* staff and the BOC two years ago. Since then, the paper has been autonomous and run by co-editors. "Autonomy is very important for student papers," says Games. "Our job is also to teach people, to help our volunteers learn and write stories. With two editors, more information is getting out to the students, and we can do more teaching and workshops."

"Editorial decisions must be discussed

between the two of us," adds Gower. "Policy decisions are discussed with all the staff. This lets the volunteers have a real say in how they paper is run."

Student writers often start, as Gower and Games did, by doing reviews or short pieces, then progressing to more involved stories, learning all aspects of the newspaper as they go. And there is no "typical" *Martlet* staffer, say the co-editors. "We have students from all disciplines," says Games, "Engineering, Fine Art, Political Science, Pacific and Asian Studies and English, for example."

Though Games has been at the *Martlet* continuously for the past two years, Gower went on the CFUV as program director, then editor of *Offbeat*, before returning to the *Martlet* as co-editor. Currently, both students work full time on the *Martlet*. Gower will be graduating this spring with a Co-op Creative Writing degree. Games is a 2nd-year Canadian History student, and will be taking classes again once her term on the paper is complete.

Co-editors are hired by a joint committee of *Martlet* staff and AMS members. Once Gower was hired as co-editor he arranged with Creative Writing Co-op Program Co-

ordinator Don Bailey to have his employment at the *Martlet* considered a Co-op term.

The *Martlet* employs eight work study students as department editors. This allows the paper to provide employment for students who are interested and have some experience on the *Martlet* itself or a similar background. "We're looking for commitment," says Games. "They have to realize that though they'll only get paid for about seven hours a week, the paper will require more work than that." Adds Gower, "We had about 35 applications and all the work study applicants were interviewed. Usually if they are interested in writing, they will do that anyway, even if they are not hired as editors."

Games notes that hiring work study students gives continuity to the paper. "They are going to provide leadership for the staff next year." One of the jobs of the department editors, says Games, is to provide feedback to the writers. Staff members also benefit from opportunities to attend workshops and conferences throughout the year.

The *Martlet* can be an important training ground for students who are interested in journalism or publishing. "We are a step-

ping stone," notes Gower. "*Monday Magazine* has followed up a few story ideas from us, and recently hired a former *Martlet* staffer."

Yet not every student who works on the *Martlet* goes into a journalism career. Says Gower, "Probably the majority of students don't see journalism careers as their goal. They are interested in many things and this is a good opportunity to get information about the university."

Gower emphasizes that the *Martlet's* main purpose is to inform students. "There are a lot of things happening on campus. Somebody has to find out what they are." The *Martlet* is particularly effective for acquainting new students with the activities and issues among students on campus. "They get to know how the campus works," says Games.

"Sometimes we have to fight against the perception by students that a campus paper is amateurish," says Gower. He feels this year's *Martlet* compares favorably to the student papers of other universities and to the *Martlet* of previous years. "I think the stories are better and it looks better," he says. "A good paper can help students have a more active role in their university experience."

Reorganization takes place in Personnel Office



The reorganized Personnel Services team includes, from left to right, Mary Soles, Personnel Officer, Philip Reusing, Assistant Director, Fran Goldberg, Administrative Officer and Peter van der Leeden, Director.

In a move designed to make better use of the talents of its staff, UVic's Department of Personnel Services has undergone some significant personnel and responsibility changes. Department Director Peter van der Leeden recently announced the adjustments which include changes to the responsibilities of two existing staff members and the appointment of Mary Soles as Personnel Officer to replace Joan Thomson who left UVic at the end of the summer.

Philip Reusing has been appointed Assistant Director of Personnel Services, a position created through the reclassification of his previous position as Personnel Officer, Classification and Salary Administration. He is now responsible for employee relations in the context of day-to-day administration of Collective Agreements and other employment policies. It is expected that Reusing will work very closely with van der Leeden in all these areas. He will also act for the Director in his absence and retains responsibility for the administration of classification and salary matters.

Reusing's new position will allow him to take advantage of his previous experience in labor relations at Eurocan Pulp and Paper in Kitimat. He has been with the University for three and a half years.

Mary Soles joined Personnel Services on Oct. 3 as Personnel Officer after seven years operating her own local management consulting practice. She is responsible for recruitment and employment matters relating to all employee groups except faculty. In addition, she will assist Reusing by assuming responsibility for Union classification studies.

Van der Leeden expects that Soles will make UVic's recruitment efforts more efficient simply because "having one person responsible for recruitment rather than having it split up as it was has definite advantages."

Administrative Officer Fran Goldberg is also part of the departmental reorganization, taking on responsibility for the benefits communication function for all employee groups on campus in addition to her continuing responsibilities for office management, the development and administration of the Computerized Human Resource Information System (CHRIS), and the temporary office staff service.

Goldberg is excited about her new responsibilities and has found the change stimulating. She says, "it's interesting to learn a new area."

The reorganization of Personnel Services results from a long-felt need to have someone to act for the Director in his absence and to work with him closely on a day-to-day basis. Staff in the office also wanted to devote more attention to its recruitment and employment functions. Additionally, with the departure of Joan Thomson, there was a convenient opportunity for the staff to enhance their jobs by making changes in areas of responsibility.

Changing responsibilities also ensures that staff members are familiar with the tasks of others in the office. This is a big advantage at UVic, because as Soles says "we're a small operation and can't afford to be too specialized." The University's Personnel Department has less staff than most personnel offices of employers the

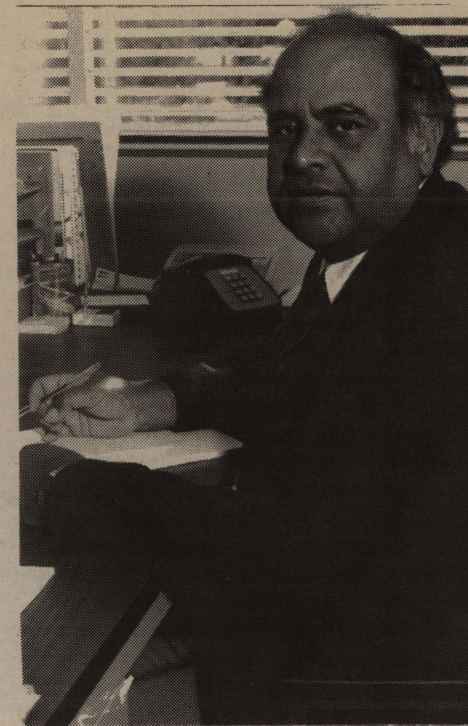
size of UVic.

Van der Leeden is enthusiastic about his new team, saying "I hope that these changes will lead to better service." In addition to adding the talents of Soles, the juggling of responsibilities has given Reusing and Goldberg the stimulation of a new job without losing the knowledge and contacts built up at UVic over their years with Personnel. Van der Leeden feels that the reorganization provides an excellent opportunity to enhance the professional development of his staff and

thinks "it would be extremely valuable if it could be done elsewhere at the University." It is not common at UVic for staff to be able to redefine their own positions primarily because the University is an extremely lean operation where most administrators have specialized expertise that can't be easily shifted from one set of responsibilities to another.

Van der Leeden and his staff hope to maintain a personal approach to personnel. He especially wants "everyone at UVic to feel that they know at least one of us."

Bhargava awarded prestigious A.S.I. Fellowship



Dr. Vijay K. Bhargava (Electrical Engineering) has been elected a Research Fellow of the B.C. Advanced Systems Institute. The announcement was made on November 21 by A.S.I. Board Chairman Dr. Denis Connor.

A.S.I. Fellowships are worth \$70,000 a year and are intended to enable top-notch scientists and engineers at B.C. universities to devote more time and resources to research to assist the universities in attracting fresh expertise to the province. To this end, Fellows pursue their research

in cooperation with local industries, stimulating technology transfer from university labs to industry.

Bhargava's research is in the area of digital communications, with special emphasis on error control coding techniques. He is concerned with the deletion and correction of errors that occur at the receiving end of satellite, microwave and other transmissions as a result of such natural factors as rain, lightning and distance. The correction of faulty data received from transmission is achieved either through automatic computer correction at the receiving end or through requesting a repetition of the transmission.

Bhargava's work has important commercial applications in mobile radio and satellite systems. It can also be applied in recording—magnetic discs, optical discs, computer memories—whereby information is transmitted from "now to them".

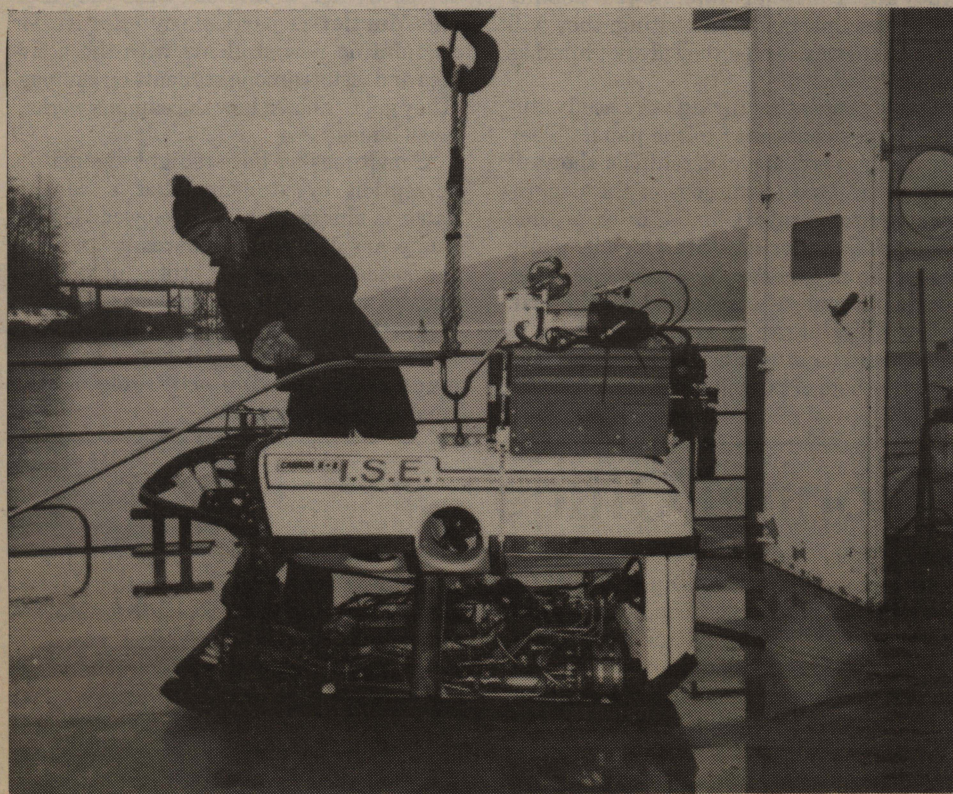
Bhargava recently chaired the Canadian Conference on Electrical and Computer Engineering, held in Vancouver, November 3 and 4. The conference drew participants from as far away as Australia, Japan, Italy and Germany and featured papers by many members of UVic's Faculty of Engineering.

The B.C. Advanced Systems Institute receives equal funding from the federal and provincial governments. It serves to encourage excellence in such fields as robotics, telecommunications, microelectronics, computers and artificial intelligence, particularly as they apply to the development of the province.

In January, 1988, Dr. Maarten Van Emden (Computer Science) was named an A.S.I. Fellow.

"Tilt-Pan" Mechanism for submersibles yields high-performance results

The following article has been written in conjunction with the business and Industry Development Centre on campus. The BIDC encourages technology transfer between the university and industry.



A submersible from International Submarine Engineering of Port Moody, with the tilt-pan mechanism mounted on it, is inspected prior to testing by Engineering Co-op student Wayne Wolverton.

World Competition in the potentially lucrative field of submersibles is definitely heating up, and the development of an acoustic telemetry and control mechanism for unmanned, untethered submersibles at UVic is certain to be an important step forward.

Dr. James S. Collins, Co-op Engineering student Wayne Wolverton, and James L. Galloway, Head of Engineering Development at the Institute of Ocean Sciences, Sidney, have designed and constructed a prototype "tilt-pan" mechanism which will help to monitor and control a submersible while it is working around offshore oil rigs, or being used for exploration or military applications. The project is part of an overall program to build a system which will retrieve video information from submersibles.

Collins says unmanned, untethered submersibles with high performance telemetry links could perform certain tasks more effectively than manned, or tethered vehicles. Communication with those above the surface is slower with manned, untethered vehicles, and tethered vehicles can create maintenance and handling difficulties, reducing maneuverability severely when the cable becomes entangled or broken.

Tether cables are necessary for heavy vehicles, but for light-weight survey requirements, untethered vehicles make many more tasks viable. Untethered vehicles extend maneuverability and range, allow operation from varied support vessels, significantly reduce purchase and operating costs, and require a relatively short training cycle for operators.

Strong communication links are necessary for an unmanned, untethered submersible to operate effectively; Wolverton and Collins' project involves the use of acoustics instead of radio waves. "The trouble with underwater communication via radio waves is that the conductivity caused by the salt in the water only allows signals to go a few feet," Wolverton explains. "Acoustics, on the

other hand, travel very well. The problems we have been working on are determining where and how to point the transducers—the electroacoustic devices that convert sound energy to electrical energy and vice-versa. The tilt-pan mechanism is a key component in the system which keeps the transducers properly aligned, allowing a high-performance level of video feedback from unmanned submersibles without a tether cable."

The project that Wayne Wolverton has designed and constructed with Collins' guidance and support, is the tracking system that aligns the transducers, automatically providing a very high-quality underwater communications path. This path uses a narrow beam mechanism which keeps receiver and transmitter pointed at each other. The result: an uncluttered signal at the receiver in the form of clear video images which allow accurate guidances of the submersible around its work area.

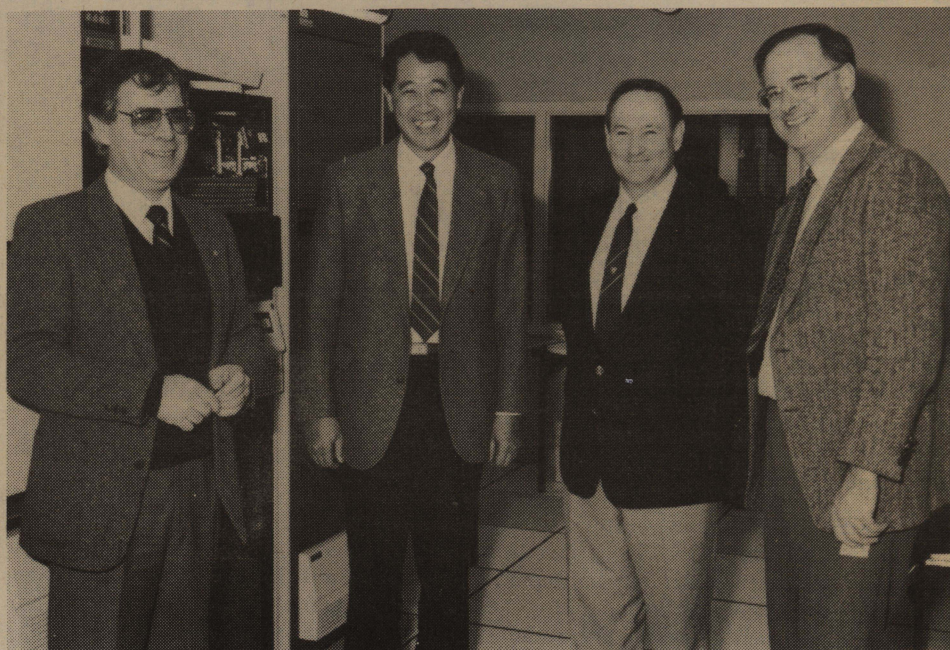
An original tilt-pan motor was purchased from England, but proved to be far too slow. Wolverton re-designed the whole device, building a new one with up to ten times the speed of the original in a smaller package.

Collins points out that the Japanese recently allocated \$56 million toward the development of undersea robot submersibles, with \$2½ million going toward the narrow acoustic sound beam control approach. The Swedes and British have also initiated similar research and development for their offshore submersible vehicle programs.

"It's going to be a long haul yet," Wolverton says. "We're all still at the prototype stage. The narrow beam approach will be one of the principal short-range underwater communications techniques of the future, that's certain—with important industrial and military applications. Science has been slow in catching on to the advantages of unmanned vehicles, but that's changing now."



Delegations from China and Japan visited the faculty of Engineering in November to learn about UVic expertise in ocean engineering and explore possibilities for future cooperation in the field. A group from the Marine Acoustics Society of Japan, above, heard research reports by Dr. James S. Collins (front, centre) and Dr. Lynn Kirlin (far right), of UVic's Department of Electrical and Computer Engineering, and by Dr. Sheldon Wadell of Royal Roads Military College (far left). Collins has close ties with Japanese researchers and is author of an influential 1986 study entitled **Japanese Marine Robotic Advances and Implications for Canada**. His work involves acoustic transmission of video information as applied to remote-controlled submersibles (see related article in this issue of **The Ring**). Also visiting in November was Professor Zhu Jimao of the Underwater Engineering Research Institute at Shanghai Jiaotong University (below, second from left). Shown accompanying Zhu on a tour of the Science and Engineering Building are (from left to right) Faculty Engineer Mr. George Csanyi-Fritz; James McFarlane, President of International Submarine Engineering Ltd. of Port Moody; and Collins.



John Porter Memorial Award goes to William Carroll

Dr. Bill Carroll (Sociology) has received John Porter Memorial Awards for his book *Corporate Power and Canadian Capitalism*.

The John Porter Award has been established by the Canadian Sociology and Anthropology Association to honor, annually, a distinguished contribution to Canadian sociological literature.

Corporate Power and Canadian Capitalism is a "very carefully researched, insightful, and highly readable book in the area of political economy studies," writes Dr. James E. Curtis, chairman of the CSAA and member of the Sociology Department of the University of Waterloo, in the official statement announcing the award.

Criteria for the John Porter Award states that eligible books are not limited to intellectual area, theoretical approach or style, but must contribute to a broad understanding of Canadian society. Books published between Jan. 1, 1985 and Dec. 31, 1987 were considered by the Award Committee

for 1988 and 12 nominations were considered.

The several nominations before the committee were just "an elite sample from among the quality works available," says Curtis.

Carroll's book "is a volume which successfully challenges many of the conventional wisdoms of dependency theory and which, along with some other recent work (including work by Professor Carroll), has clearly redirected our thinking about the nature and development of capitalism in Canada.

"This process of re-direction is one of the things that was so important about *The Vertical Mosaic*. Professor Carroll's book represents well "the Porter tradition" in this way too. Incidentally, William Carroll's research problem was very briefly flagged by John Porter in his work as one deserving close study in Canada. So, again, Porter surely would be pleased with what has occurred," concludes Curtis.

Cooperating with Nature is the key to biologist's aquaculture research

It takes extraordinary vision to see the mysteries of nature, even when equipped with a powerful microscope. Dr. Alan Austin (Biology) speaks passionately about algae and other living organisms and about his research because he has seen the mystery.

"Science is a very demanding mentor, but it enables you to comprehend the most unbelievable things," Austin says.

One of these wonders is biofilm, a film of living creatures which coats all underwater surfaces. Austin and his graduate students Patrick Lucey and Commonwealth Scholar Chris Ridley-Thomas have been studying biofilm (also called periphyton) firstly to understand its ecology and then for use as a feedstock in the aquaculture industry.

With the co-operation of the Greater Victoria Water Board they have developed experimental streams for this work. Austin describes streams as remarkably productive systems populated by amazingly diverse creatures, where life is new every moment.

"Since stream systems are always flowing, what you have in the way of food is being continually replaced while waste is taken away. Any stream is incredibly complex," says Austin. "It takes a simpler computer program to launch a space shuttle than we need to characterise a meter length of stream. Streams feed our rivers, oceans, give us our water, and yet we understand them poorly."

Such lack of understanding about the environment and the destruction that occurs because of it concerns Austin. "I find myself very sympathetic to someone who works in a mill. He knows that every day he works hard for eight hours and may have the most horrific impact upon the environment, but he has to get the cheque to feed his children. It's no good telling him he can't do that—he has to have alternatives."

Finding alternatives to environmentally harmful practices is what led Austin to his present scientific research on biofilm. He thinks some of the current sources of food used in aquaculture are very inappropriate.

"We are taking foods from agriculture, protein from the various fisheries, and—something which insults the very concept of life of so many organisms—the 'trash fish' industry of the North Atlantic. Why would we call a fish a 'trash' fish? That's a disgusting name. They are the most exquisite, elaborate creatures. We go with great big bottom trawlers, scoop them up, put them in a blender and make pellets out of them, shipping them all the way from Denmark

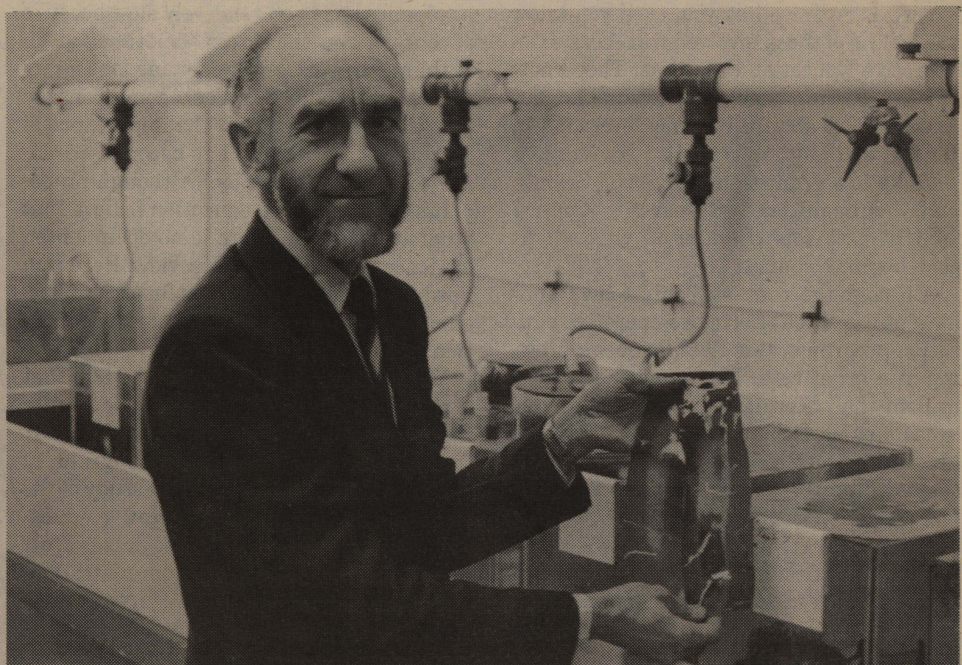
to feed them to our salmon and our pets. I know that is economically feasible but it is ultimately an ecological disaster. This attitude may also be socially disastrous. And there is even talk of putting the herring of the Grand Banks in tankers and shipping them all the way around to feed our salmon on this side of the country. Anybody with common sense could see that doesn't fit with a self-sustaining system."

Austin thinks feeding fish in designed food-chain systems based on the algae which grow in the water mass around them makes both economic and ecological sense, somewhat similar to feeding dairy cows on the grass that grows under their feet.

"The *in situ* generation of raw feedstock would have the least deleterious impact on the environment," notes Austin. "We should not be transporting this food thousands of miles; the benefit is then lost. Much of the generation of feeds in other systems produces pollutants. Our method can potentially reduce pollutants by using nutrients which other organisms excrete into waterways. We can 'strip' these out and feed them to fish or other organisms. Production and reduction go together. The two horns of this concept are to simultaneously produce foods and reduce pollutants. We have already succeeded in the first stages of taking the nitrogen waste resource the fish produce and feeding it back to them," he says.

"We have found that if we increase the surface area of the stream, by adding rocks, for example, there is a corresponding increase in the number of fish," says Austin. The greater surface area allows increased growth of periphyton which is then indirectly available to nourish more fish. As part of his biofilm research, Austin and his students are now feeding fish on biofilm biomass produced in controlled stream systems. Their research results are still being assembled but preliminary work seems to indicate potential in the projects.

"We've found that we can alter various factors in streams that affect the biofilm. So we collect it, dry it, and analyze its nutritional content; then we can stack that up against what the fish require," says Austin. He hopes that through continued experimentation, his group will determine the right mix of factors that will produce the best feed for the fish. "We might find out how nature fine tunes natural feeds for the larval fish, the fingerlings and the adult fish." Eventually, says Austin, the aquaculture industry could break its reliance on artificial feeds by using nature as a partner, instead of fighting her.



Austin

Comprehension of and co-operation with natural systems is one of the imperatives that Austin stresses in his courses and research. "When we look at any new practice or technology such as aquaculture, we must look at why we are doing it and what happens if we do it." The consideration of "what happens if..." has always been of importance to him. "It is an environmental caution, a future-looking imperative. If we do not accept this predictive capability of question and doubt in our activities, our children and history will wonder what we have been doing."

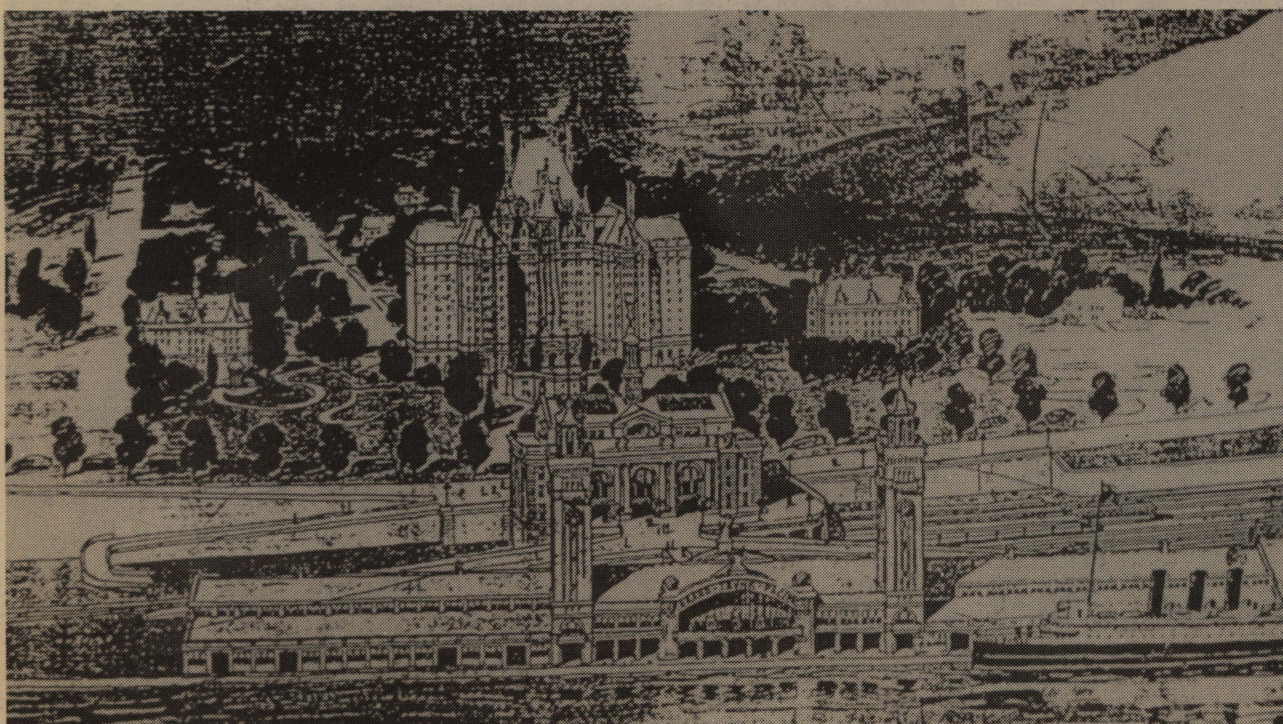
Austin's lifestyle reflects his ecological concern. At home and at work he tries to reuse envelopes, paper and containers, before they are taken to a recycling depot. He lives on the outskirts of the city yet he drives a small car with a small engine. Even the few chickens he keeps have a coop that blends with the environment and allows them room to roam. "I have managed to make a little space for a vegetable garden by removing stumps that had been left from old logging and leaving the present trees."

Austin began working with aquatic organisms in his teens and went on to obtain his Ph.D. in marine botany with extensive work on Atlantic and Baltic seaweeds. Since then, his emphasis has continued to be on both freshwater and marine algae. "It's the basic backbone that lies behind aquaculture, and really behind my experience in water pollution. One studies

the algae and learns how things really work in water. They are fascinating creatures, spanning an enormously broad field."

People who work with minute creatures seem to come to quite practical philosophies, a pragmatic metaphysics, the humble mysticism of nature, says Austin. "It really saddens me that some people think that scientists are cruel to animals. You couldn't find people more careful and caring with other creatures than zoologists and botanists—and not just with warm furry animals like ourselves! I can't even weed the garden without problems, because the weeds to me are as perfect as cultivated plants. I know their Latin names, their ecology and their life cycles. I won't weed with poisons and I try to get the weeds back to where they belong in the compost or outside."

We usually see poetry and science as opposite sides of the coin, but scientists such as Austin create a new poetic view of the world through the understanding they have of our place in it. "Of course I like seals with brown eyes but I also question myself—is it because they are like us? Do we have the same attitude towards snakes, seaweeds and bacteria? Are these beyond the pale? They support us much more than does the seal. But bacteria, we think they are all 'bad'! What of snakes, slugs, spiders? So it sounds strange, but in education we must slowly move towards a much greater understanding and bond with nature."



Concept design for the Prince Rupert Hotel, Grand Trunk Pacific Rail Station and Steamship Terminus drawn in 1913 by architect Francis M. Rattenbury—part of the exhibition "Delusions of Grandeur: Plans of the Hotel Prince Rupert" by Rattenbury at the Maltwood Art Museum and Gallery now through Jan. 15, 1989. The drawings and blueprints were discovered in 1985 in the attic of Victoria's Glenlyon-Norfolk School, which has lent them for this exhibition. Rattenbury's designs for the hotel are very ambitious in scale, indicating 600 rooms with a ten-story central block and two six-story annexes. Unfortunately, his designs were destined to remain on paper, as the outbreak of World War II drove the Grand Trunk Railway into bankruptcy, forcing the abandonment of their plans to make Prince Rupert a northern metropolis.

\$197,282 SSHRC grant for Co-op Education study

If you've ever had a favorite restaurant or found a quiet little store full of bargains but haven't understood why the whole world wasn't as enthused as you, then you know the feeling of those involved with UVic's Co-operative Education Programs. They know they're offering something valuable, but haven't been able to convince everyone in the Canadian university community. Thanks to a grant from the Social Science and Humanities Research Council (SSHRC), this is a situation that might soon begin to change.

Although there are still only a few Canadian universities offering co-operative education programs, this field has been growing at a great rate. This is nowhere more evident than here at UVic where academic areas now participate in Co-op, a group of programs which combine classroom education with on-the-job experience. Co-operative education enrolment now tops 900 students at UVic, up from 50 when the program was first initiated in 1975. Within five years it is expected that 20 per cent of full-time UVic students will be enrolled in co-op programs.

Despite this growth and the increasing popularity of Co-op among students and employers alike, there has been a problem. As Dr. Graham Branton, UVic's Director of Co-operative Education Programs puts it, "Co-operative Education has been growing because it is politically-popular, but it is not fully academically-popular." This is true at

UVic, one of Canada's Co-op leaders, as well as at other universities.

Acceptance of Co-op programs among academics has been relatively slow because of concern over the stress sometimes given to the success of Co-op in getting jobs for its graduates. There has been some concern that in Co-op programs, the importance of getting good education has become secondary to getting a good job. Although proponents of co-operative education believe that students get both, there is no documented evidence to back up such a view. Research has been conducted into the future employment benefits of Co-op, but not the educational benefits.

That's a gap that will soon close now that a multi-disciplinary group of UVic faculty members has received a grant of \$197,282 from the Strategic Grants Program of SSHRC to conduct a three-year study of the educational benefits of co-operative education. The team includes Drs. James Cutt and Mark Loken (Public Administration) and Dr. Geraldine Van Gyn (Physical Education). Project co-leaders are Dr. Frances Ricks (Child Care) and Dr. Graham Branton (Chemistry).

Branton has been impressed by the nation-wide growth of co-op education, but he is aware of some unanswered questions. "One of the questions is 'why do Co-op?' Is it just a way to get a job or is there more that occurs in co-operative education to educate the student?"

That's the focus of the study which relates directly to the Strategic Grants Program theme of Education and Work in a Changing Society. Ricks shares Branton's concerns, noting that Co-op has experienced slow progress toward complete acceptance on university campuses. She feels that "academically, Co-op is still viewed with some disdain." This is an attitude Ricks feels will change here at UVic and at other Canadian universities. The study will determine if she is correct in saying there is more to Co-op than a good job, "it's not just a factor of working, but the process."

Co-op programs are based on the premise that there is value in learning theory in the classroom, examining possible applications of theory, applying it in the workplace, then returning to class to re-examine the theory. Ricks and other proponents of Co-op believe that "this process generalizes to whole different aspects of living and is different than with a non-Co-op student."

The study, set to begin almost immediately, will test academically-comparable Co-op and non-co-op students in areas of values clarification, communication and problem-solving. Additional tests will measure functioning in social situations and the use of science and technology or the arts. Conducted on a longitudinal basis over a three-year period, the results of all these tests will allow a comparison of the two experiences. Students from most UVic

departments involved in Co-op will be included in the study, but in some cases comparable non-Co-op students are not available on campus. This is because some UVic programs such as engineering are entirely Co-op in nature and others don't have any comparable non-Co-op students enrolled. This problem will be overcome by substituting comparable students from the University of British Columbia.

A second aspect of the study will test the hypothesis put forward by Ricks that "something happens to faculty. They teach differently with Co-op." This will be measured by videotaping classroom situations with and without Co-op students. Classroom interaction will be measured through analysis of the videotapes and the two experiences will be compared.

If it is found that the classroom experience is different in Co-op situations, the research team hopes to conduct a future study to examine the causes of such differences.

SSHRC has recently shown considerable interest in co-operative education. In addition to the UVic study, researchers at the University of Waterloo have received a slightly smaller grant to examine Co-op programs. Branton attributes all this attention to the rapid growth of programs in Canada and their political popularity. The UVic grant is the largest ever given in Canada to study Co-op education.

Seniors' Reminiscence Kit produced by Social Work professor

For most of us, the only time we think about the importance of our memory is when it fails us. If you forget where you've put the car keys or can't recall the name of your third cousin, it can be infuriating. We may not always be aware of their importance, but memories are a vital part of who we are and reminiscence is how we can reconnect with our past.

Although memories are incredibly fragile, they can last a lifetime—often longer than the physical possessions we consider to be much more sturdy and durable. Our ability to reminisce about the past is generally taken for granted, as is the particular importance to senior citizens of maintaining memories about past experiences.

The importance of memories and reminiscence to seniors has been recognized by Dr. Andy Farquharson (Social Work) who has developed materials intended to help

senior citizens maintain their independence through reminiscence. Farquharson has recently received Federal Government funding of \$17,000 to produce and promote a Reminiscence Kit.

Farquharson has developed an instructional kit designed to help seniors reminisce about their past. Reminiscence is considered valuable to many seniors in promoting social interaction, the use of long-term memory and enhancing self-esteem.

A prototype Reminiscence Kit, developed four years ago by Farquharson demonstrated the important benefits of reminiscence group discussion for seniors in a variety of settings. The kit contained audio-visual materials to be used in reminiscence exercises and was tested successfully in Victoria, Prince George and the Lower Mainland, but was not fully developed or

marketed at that time.

Funding from the Seniors Independence Program of Health and Welfare Canada will not allow the production of instructional kits which include both print and videotape materials. Rather than including specific materials to be used with seniors, the kit instructs organizers in how they can locally produce and use their own materials. The instructional package will allow seniors groups and community organizations across Canada to develop materials appropriate to the geographic, cultural and age populations of specific areas. Subtle ethnic or historical nuances of the community may be reflected in materials developed locally for local use.

Although the concept of reminiscence for seniors has been recognized as valuable for some time, the production of reminiscence materials in Canada has never before been

developed systematically. Until now, organizations wanting to implement reminiscence exercises have been required to develop materials on an ad hoc basis.

The kit is to be designed for seniors' groups engaged in developing independent projects for the seniors community. It will offer systematic guidelines for developing an audio-visual program for reminiscence. In addition to print materials outlining 'how to' aspects of producing an audio-visual program, the kit will include a videotape demonstrating the management of group discussion and the facilitation of group reminiscence. The videotape, produced both in studio and on-location, will provide the non-professional with group management skills.

The kit will be made widely available to seniors' organizations and historical societies beginning next Spring.



The UVic Thermofloat Jacket was the star of the show on Oct. 17 as a film crew came to town to shoot a sequence for the television science program "Beyond Tomorrow." Reporter Richard Wiese got a thrill as he leaped into the frigid briny off Sidney to demonstrate the jacket—a flotation device that converts into a mini-wetsuit to protect against hypothermia. The jacket was developed based on the hypothermia research of Dr. John Hayward (Biology). The

program, was broadcast Nov. 12 and also featured another result of Hayward's hypothermia work—the UVic Heat Treat, which uses warm, moist air to heat the body core of hypothermia victims. The filming was made possible by the assistance of the Sidney Unit of the Canadian Coast Guard Auxiliary.

Women students hardest hit by summer job shortage

by Brian Webster

Female UVic students were less likely to find full-time summer work and less likely to earn adequate summer incomes than male students during the summer of 1988. In addition, both male and female students are finding it increasingly difficult to finance their educations through summer earnings. These are among the conclusions of a report prepared for UVic's Student Union and the University's Student Employment Committee.

The study, entitled "A Report on Student Employment", was prepared by Dr. Roy E.L. Watson (Sociology). It is based on survey data gathered from UVic students at the beginning of the current academic year. The report notes that although the results "show a slight improvement over 1987... savings from this employment have not kept pace with expenses. Students are having to turn in increasing numbers to financial aid loans, continued part-time employment and reliance upon parents for support."

Perhaps the most disturbing news to be found in the report is the difference in summer employment experiences for male and female students. While 34.9 per cent of male students surveyed worked full-time for the full summer period, only 27.8 per cent of women achieved that level of employment. Just over 30 per cent of male respondents earned over \$6,000 during the summer, while only 6.7 per cent of women made that much. At the other extreme, more than half the women surveyed (52.7 per cent) earned less than \$3,000, while only 33.6 per cent of men were in that category. More than half the female respondents also expected their summer earnings to meet less than 25 per cent of their university expenses, compared to 32.4 per cent of men in that position. Only 16.6 per cent of women expected summer earnings to cover 75 per cent or more of their expenses, compared to 40.8 per cent of men.

The report did not seek to explain the

causes of these gender differences, although Watson says they represent evidence of "an ongoing problem." He expects the substantially better employment experience for male students is primarily due to the fact that "the kinds of jobs that are available to women are a little more restrictive" than for male students.

Mairi Johnson, UVic's Student's Union Vice-President Academic, is extremely concerned by the survey results. She feels less work and lower pay "directly affects women's education." Johnson claims "tuition fees end up hitting women harder" and points out that lower summer incomes mean more dependence on loans, a situation which is exacerbated "when they get out of school because they get paid only 66 per cent as much as men." Johnson recognizes that the problem is prevalent throughout society, but suggests that the University consider affirmative action programs in hiring.

The 1988 survey was conducted in September as students lined-up for their student identification cards. As a result, this year's survey was based on what Watson describes as "somewhat harder data" than in past years, when students were surveyed in the middle of the summer.

The new sampling method did, however, exclude would-be students who registered but were unable to attend UVic for financial or other reasons. Previous surveys for the annual student employment report were conducted during early registration, so included some respondents who did not actually end up attending UVic.

The report concludes by posing the rhetorical question: "how many who might benefit from university are being deterred from continuing their education by these means—incurring personal debt, continuing in a dependency relationship or having to turn from academic study to remunerative part-time jobs?"



"An excellent stocking stuffer," says Brishkai Lund (Extension) of the attractive 1989 wall calendar released by Women for Economic Survival (WES) in co-operation with UVic Extension. The calendar, with illustrations by artist Sylvia Tebbutt and graphic design by Gail Woods (Extension), is now available from Lund in her office in University Centre A242 or from the UVic Bookstore. WES, a local mutual help group to raise awareness and help women to overcome poverty, has a membership of 67 women from all walks of life including many from UVic. Lund Extension program co-ordinator for WES, explains that the calendar is designed to inform people about WES and "make a little money" for WES spring education programs. People can contribute to WES by paying from \$2 or \$4 for the calendar in Lund's office. Or, those wishing to raise some money for Christmas can buy 10 calendars at \$2 apiece and sell them for \$4. This may help some women facing financial hardships at Christmas says Lund. "It's so easy to forget what it's like to be poor," she stresses. Pictured left exhibiting the calendar in Lund's office are (left to right) WES members Dr. Josie Schofield (Political Science) and Lydia Kasianchuk, and Woods and Lund.



The year 1988, which marks UVic's 25th Anniversary Year, also marks the 125th Anniversary of the Greater Victoria Chamber of Commerce. Many of the Chamber's past presidents and directors served on the University Development Board, which saw the University firmly established on the Gordon Head campus in 1963. The Chamber has continued to be a strong supporter of UVic, with many of its presidents and directors serving on UVic's Board of Governors, Senate and the UVic Foundation. UVic President Dr. Howard Petch held a luncheon this fall at the Faculty Club to commemorate the mutual anniversaries of the Chamber and UVic and invited the Chamber's past presidents. In the photo above, members of the UVic community (identified by position) and the Chamber presidents who

attended are (left to right, back row) Trevor Matthews (V-P Administration), Bill Anderson, Jim Currie (Director of Institutional Analysis and past Chamber President), Bob Skene, Brian Small, Glen Terrell, Frank Leonard, Cedric Steele, Bill Hazell, Alan Emery, Pip Holmes, Sam Scully (V-P Academic), Bob McQueen (V-P Finance) and (left to right, front row) Carole Didier, Dick Murray (Managing Director of the Hudson's Bay Co. at the time UVic acquired company land to build the new campus), Bill Armstrong, Hugh Stephen, Pat Dun, Tom Denny, Helen Beirnes, UVic President Dr. Howard Petch, Arne Lane, Bob McHaffie, John Ansell, and Clare Copeland.

Calendar

PUBLIC LECTURES AND SEMINARS

Friday, December 9, 1988

8:00 p.m. Royal B.C. Museum Super Series Lectures: Dick Rutan and Jeana Yeager recreate their non-stop, non-refueled flight around the world that made aviation history in "Voyageur: One World, One flight". Tickets \$14 general, \$11 students, seniors & friends of the provincial museum, \$8 children. Available at McPherson, Hillside and University Centre box offices. University Centre Auditorium.

EXHIBITIONS

November 15-December 13, 1988

Visual Arts Grad Students' Show. An opportunity to see germinating talents in an abounding variety of media, style and content. McPherson Library Gallery.

November 20, 1988-January 15, 1989

Rattenbury Drawings. Drawings, sketches and blueprints dating from 1910 to 1913, concerning a magnificent hotel that was to be built in Prince Rupert, provide insight into the process behind the architectural skill of Francis Mawson Rattenbury. Maltwood Art Museum and Gallery in the University Centre.

AND

"Visions: 25 Years Building UVic at Gordon Head". This complementary exhibition traces the development of the University campus over the last 25 years through architectural plans and drawings. Maltwood Art Museum and Gallery in the University Centre.

December 14, 1988-January 3, 1989

Paintings by Robin J. Lambert. In these watercolors, the artist conveys the spirit of our times through the covers of popular contemporary magazines and books. McPherson Library Gallery.

January 3-21, 1989

"Visual Arts Graduate Students". A display of the fresh and varied works of yet-to-be-discovered talents. McPherson Library Gallery.

MUSIC

Saturday, December 10, 1988

Friday, November 25, 1988

2:00 p.m. Four Seasons Musical Theatre—"Cinderella". Tickets \$3.50 or \$3.00 group of six or more. Available at the door. University Centre Auditorium.

Saturday, December 10, 1988

7:00 p.m. Degree Recital. Ph.D. graduating work by Composition student John Abram: "Zeneid Music". Admission by donation. For more info call the School of Music at 721-7903. Open Space Gallery.

Sunday, December 11, 1988

2:00 p.m. Four Seasons Musical Theatre—"Cinderella". Tickets \$3.50 or \$3.00 group of six or more. Available at the door. University Centre Auditorium.

Saturday, December 17, 1988

2:00 p.m. Four Seasons Musical Theatre—"Cinderella". Tickets \$3.50 or \$3.00 group of six or more. Available at the door. University Centre Auditorium.

Saturday, December 17, 1988

2:00 p.m. Four Seasons Musical Theatre—"Cinderella". Tickets \$3.50 or \$3.00 group of six or more.

3:00 p.m. "Tubaxmas '88" in Market Square brings together tuba and euphonium players from all over the Pacific northwest who will play carols and raise money for the Times-Colonist 1000 Fund. Coordinator for the event is Eugene Dowling of the UVic School of Music.

Sunday, December 18, 1988

2:00 p.m. Four Seasons Musical Theatre—"Cinderella". Tickets \$3.50 or \$3.00 group of six or more.

Ringers

Dr. Giles Hogya (Theatre) has received rave reviews in the New York City press for his lighting designs for the Jean Cocteau Repertory Theatre's current production of Paul Claudel's tragedy *Break of Noon*. Hogya travels to New York regularly to design or direct plays for the off Broadway repertory theatre which plays in the New York Bowery district. "The story and the locales are exotic and were enhanced by the minimalist settings lit by dazzling lighting designs by Giles Hogya," wrote critic Victoria Gluck in Back Stage following the play's opening in September. "Giles Hogya's sets complete with a versatile symbolic omega are all one could hope for on the Cocteau company's stage," Wilborn Hampton wrote in the *New York Times* last month. Last year Hogya received rave reviews for his direction of Jean Paul Sartre's *No Exit*, which he will again direct next February this time for the UVic Phoenix Theatre.

Peter Darling (Director, Supply and Technical Services) has been elected to a two-year term as a member-at-large of the council of the Association of Professional Engineers of British Columbia. Darling, who is a chemical engineer by training and has been a member of the Professional Engineers of B.C. since 1964, is serving his first appointment with the Council. He is now one of two

UVic members of the 17-person Council, the other being **Dr. Andreas Antoniou** (Chairman, UVic Electrical and Computer Engineering), who has been appointed to the Council by the provincial government. Darling and Antoniou are two of three university representatives on the Council, the third being from UBC.

Jack Hodgins (Creative Writing) flew to London, England at the end of November to receive one of two Canada-and-Caribbean regional prizes from the Commonwealth Foundation. The foundation awards annual Commonwealth Writers prizes each year. In 1988 there were eight winners (two from each of four regions: Canada and the Caribbean; Africa; Eurasia; Southeast Asia and South Pacific). Hodgins received the prize for his book **The Honorary Patron**, and will be considered along with the seven other regional winners for the overall Commonwealth Writers Prize.

Dean of Engineering Dr. Eric G. Manning has been appointed to the Review Committee for the Computing Centre at the University of British Columbia. This committee is reviewing the services offered by, and the structure and operations of the UBC Computing Centre.

Notices

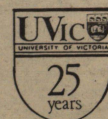
The UVic/IBM Joint Study Steering Committee is now soliciting proposals from departments on campus for the allocation of six RT PC workstations. The committee is looking for proposals whose main thrust is directed to the visualization or graphics functionality of the workstations and interfacing with the Vector Facility on the mainframe. The proposals are limited to a maximum of two pages in length and should cover a period of up to two years. The deadline for submissions to Dr. Fred Fischer (Chemistry), chairman of the steering committee is Dec. 31. More information is available from Herb Widdifield, Dave Stothard or Arthur Brett of Computing Services.

As reported in a recent edition of the Ring, UVic's IBM mainframe computer has been upgraded to a 3090/150S system. Part of the University's arrangement with IBM involves a major donation to the workstations, software, and funding for three years to pay for personnel to establish an Academic Vector Competency Centre to help implement and use these new resources.

Nominations are being sought for the \$150,000 in cash award to be presented in 1989 to Canada's outstanding innovators by The Earnest C. Manning Awards Foundation. The \$100,000 Principal Award is presented annually to a person in any field of endeavour who has shown outstanding talent in conceiving and developing a new concept, procedure, process or product of potential widespread benefit to Canada and to society at large. Two \$25,000 Awards of Distinction will also be available in 1989 for similar achievements by persons without the benefit of either advanced education or substantial corporate, institutional or other outside support. The Mannings Awards, first presented in 1982, have recognized major innovations in a wide range of fields. In order to be eligible

for the Awards, nominees must be Canadian citizens residing in Canada. Nominations close February 15, 1989. An information Pamphlet Nomination Forms may be obtained by writing to:

The Manning Awards
2300, 639 Fifth Avenue S.W.
Calgary Alberta
T2P 0M9



Pictured is the design of a pin recently presented to long-time employees of UVic and its predecessors Victoria College and the Provincial Normal School to mark UVic's 25th anniversary. The pins not only signify the 25th anniversary, but also the fact that each recipient has worked at UVic or its predecessors for 25 or more years. This respected group of employees, some retired and some still at the University, was also honoured with a special dinner hosted by UVic President Dr. Howard Petch at the Faculty Club on October 29.

The B.C. Ministry of Advanced Education and Job Training has given a joint allocation of \$30,000 per fiscal year to UVic, Simon Fraser University and the University of British Columbia to enable approximately 15 B.C. university scholars to travel to the People's Republic of China. The B.C. Scholars to China Travel Grants program replaces a similar earlier program administered directly by the provincial government. The maximum amount of money available to each successful applicant is \$2,000 and the deadline for applications is Jan. 10, 1989. For further information, contact the Office of Research Administration.

Science Council awards \$45,000

Funding of \$45,000 to support production of English speech by microcomputer has been awarded to the Centre for Speech Technology Research at UVic by the Science Council of British Columbia.

The grant for the continued development of an automated system for computer-generated speech output is the third awarded to the CSTR in three years.

This project will provide high-quality speech output from microcomputers and will have direct applications for high-technology industry in British Columbia, according to Dr. Stephen Eady (Linguistics).

Researchers in the CSTR lab in the Clearihue Building are developing a synthesis system for speech production which employs an inventory of small speech units called demisyllables. The demisyllables are linked together to produce words and sentences.

In addition to the demisyllable inventory, the system requires a set of rules to gener-

ate appropriate intonational patterns of spoken sentences. These rules, as well as a module for the conversion of English input text into demisyllable units, will result in an efficient, high-quality, text-to-speech synthesis system, Eady explains.

The introduction of this new technology will enhance the ability of the CSTR to deliver voice-output capability to industrial clients in B.C. and the rest of Canada, he says.

Over the past year, the CSTR has had contracts amounting to more than \$170,000 for the delivery of voice-output systems in applications such as automated information delivery and computer-assisted language instruction.

"We expect that this contribution to the B.C. economy will increase in future years as the new speech synthesis device enables us to supply high-quality, voice-output systems, with much greater efficiency," Eady adds.

UNIVERSITY OF VICTORIA

The Development of the GORDON HEAD CAMPUS



How well do you know your campus and its buildings? The answers to a multitude of questions on such topics are now readily available in a new 80-page publication entitled **The Development of the Gordon Head Campus**. The book was compiled by Dr. Peter L. Smith (Classics) and Maltwood Curator Martin Segger. Architects, consultants and other representatives of the construction industry who helped build our garden campus were given complementary copies of the book at a special 25th Anniversary Dinner held in their honour on Nov. 25. A limited number of copies are available for purchase, at a price of \$6.95, at the Campus Bookstore and the Maltwood Art Gallery and Museum, which currently features an exhibit that traces the development of the UVic campus over the past 25 years through architectural plans and drawings.